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International Journal of Production Research > Volume 52, 2014 - Issue 2

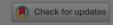
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Reduction of power consumption and carbon footprints by applying multi-objective optimisation via genetic algorithms

Pages 337-352 | Received 24 May 2012, Accepted 26 Jun 2013, Published online: 12 Aug 2013



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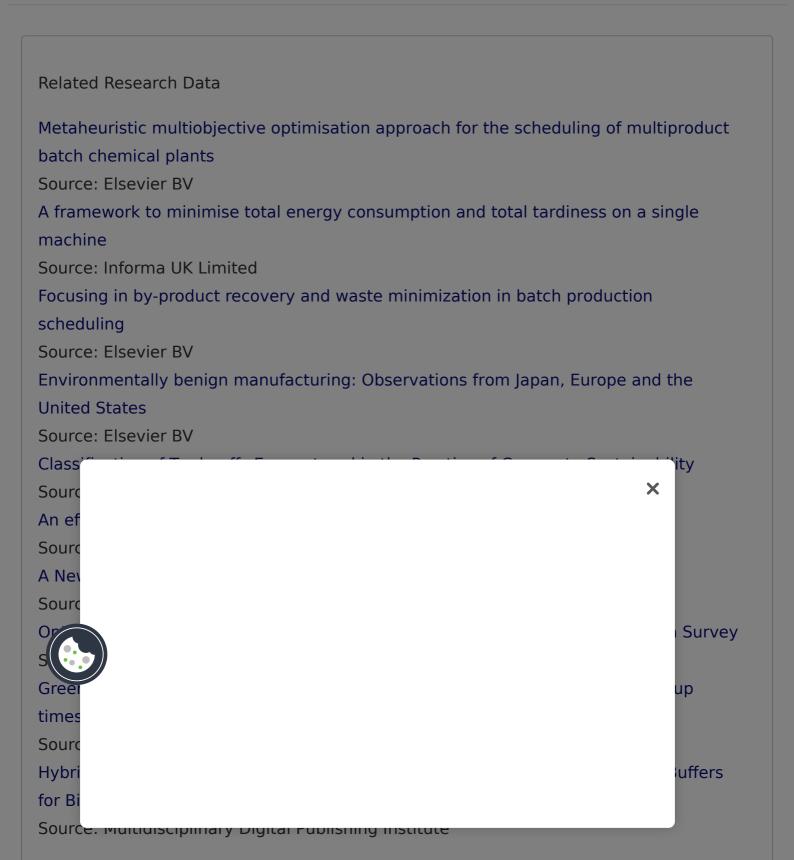
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algorithm II (NSGA-II) is implemented, which identifies the set of approximate efficient

schedules to both multi-objective scheduling problems. Moreover, an adaptive multi-objective genetic algorithm (AMGA) is developed to generate the reference Pareto front, which validates the results that are obtained using NSGA-II. Results of this study demonstrate both the effectiveness of AMGA in converging to the true Pareto-optimal set and the efficiency of NSGA-II.

Q Keywords: scheduling carbon footprint total weighted tardiness multi-objective genetic algorithms



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Source: Elsevier BV

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Source: Institute of Electrical and Electronics Engineers (IEEE)

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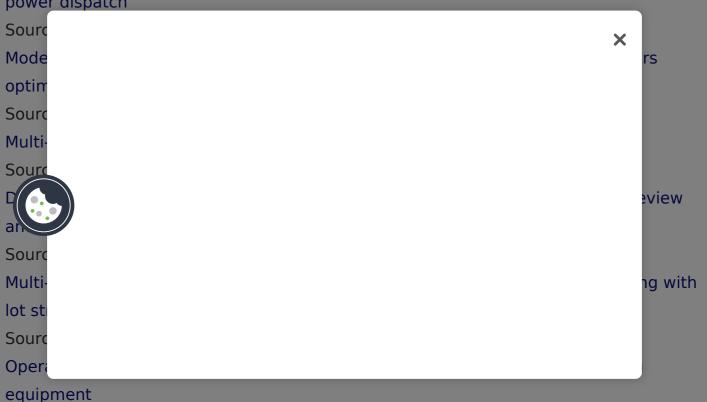
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